

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	10/775,136
				Confirmation Number	
				Filing Date	February 10, 2004
				First Named Inventor	Stephen Moxham
				Group Art Unit	2813
Examiner Name	Berezny				
Sheet	1	of	5	Attorney Docket No.	108298633US2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
NB		5,062,565		Wood et al.	11/05/1991	
		5,128,831		Fox, III et al.	07/07/1992	
		5,145,099		Wood et al.	09/08/1992	
		5,255,156		Chang	10/19/1993	
		5,286,679		Famworth et al.	02/15/1994	
		5,444,303		Greenwood et al.	08/22/1995	
		5,504,373		Oh et al.	04/02/1996	
		5,544,124		Zagar et al.	08/06/1996	
		5,593,927		Famworth et al.	01/14/1997	
		5,642,262		Terrill et al.	06/24/1997	
		5,656,863		Yasunaga et al.	08/12/1997	
		5,677,566		King et al.	10/14/1997	
		5,723,906		Rush	03/03/1998	
		5,734,559		Banerjee et al.	03/31/1998	
		5,826,628		Hamilton	10/27/1998	
		5,843,799		Hsu et al.	12/01/1998	
		5,879,965		Jiang et al.	03/09/1999	
		5,891,797		Farrar	04/06/1999	
		5,936,844		Walton	08/10/1999	
		5,946,553		Wood et al.	08/31/1999	
		5,948,314		Licciardi et al.	08/31/1999	
		5,986,209		Tandy	11/16/1999	
		5,990,566		Famworth et al.	11/23/1999	
		Re. 36,469		Wood et al.	12/28/1999	
		6,018,249		Akram et al.	01/25/2000	
NB		6,020,624		Wood et al.	02/01/2000	

EXAMINER <b>Noma Berezny</b>	DATE CONSIDERED <b>1-7-05</b>
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	10/175,736
				Confirmation Number	
				Filing Date	February 10, 2004
				First Named Inventor	Stephen Modham
				Group Art Unit	2813
Examiner Name	Berezny				
Sheet	2	of	5	Attorney Docket No.	108288633US2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
nb		6,025,728		Hembree et al.	02/15/2000	
		6,048,744		Corisis et al.	04/11/2000	
		6,048,755		Jiang et al.	04/11/2000	
		6,048,755		Jiang et al.	04/11/2000	
		6,072,233		Corisis et al.	06/06/2000	
		6,089,920		Farnworth et al.	07/18/2000	
		6,097,087		Farnworth et al.	08/01/2000	
		6,097,087		Farnworth et al.	08/01/2000	
		6,103,547		Corisis et al.	08/15/2000	
		6,107,122		Wood et al.	08/22/2000	
		6,108,210		Chung	08/22/2000	
		6,111,205		Leddige et al.	08/29/2000	
		6,118,179		Farnworth et al.	09/12/2000	
		6,118,179		Farnworth et al.	09/12/2000	
		6,130,474		Corisis	10/10/2000	
		6,133,068		Kinsman	10/17/2000	
		6,133,622		Corisis et al.	10/17/2000	
		6,148,509		Schoenfeld et al.	11/21/2000	
		6,150,710		Corisis	11/21/2000	
		6,150,717		Wood et al.	11/21/2000	
		6,153,924		Kinsman	11/28/2000	
		6,159,764		Kinsman et al.	12/12/2000	
		6,180,504	B1	Farnworth et al.	01/30/2001	
		6,180,504	B1	Farnworth et al.	01/30/2001	
nb		6,188,232	B1	Akram et al.	02/13/2001	

<b>EXAMINER</b> Noma Berezny	<b>DATE CONSIDERED</b> 1-7-05
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	10/175,736
				Confirmation Number	
				Filing Date	February 10, 2004
				First Named Inventor	Stephen Maxham
				Group Art Unit	2813
				Examiner Name	Berezny
Sheet	3	of	5	Attorney Docket No.	108298633US2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
NB		6,201,304	B1	Moden	03/13/2001	
		6,201,305	B1	Darveaux et al.	03/13/2001	
		6,214,716	B1	Akram	04/10/2001	
		6,225,689	B1	Moden et al.	05/01/2001	
		6,228,548	B1	King et al.	05/08/2001	
		6,229,202	B1	Corisis	05/08/2001	
		6,232,666	B1	Corisis et al.	05/15/2001	
		6,232,147	B1	Matsuki et al.	05/15/2001	
		6,239,489	B1	Jiang	05/29/2001	
		6,246,108	B1	Corisis et al.	06/12/2001	
		6,246,110	B1	Kinsman et al.	06/12/2001	
		6,247,629	B1	Jacobson et al.	06/19/2001	
		6,258,623	B1	Moden et al.	07/10/2001	
		6,258,624	B1	Corisis	07/10/2001	
		6,259,153	B1	Corisis	07/10/2001	
		6,261,865	B1	Akram	07/17/2001	
		6,265,766	B1	Moden	07/24/2001	
		6,271,580	B1	Corisis	08/07/2001	
		6,281,042	B1	Ahn et al.	08/28/2001	
		6,284,571	B1	Corisis et al.	09/04/2001	
		6,285,204	B1	Farnworth	09/04/2001	
		6,291,894	B1	Farnworth et al.	09/18/2001	
		6,297,547	B1	Akram	10/02/2001	
		6,303,981	B1	Moden	10/16/2001	
		6,303,985	B1	Larson et al.	10/16/2001	
NB		6,310,390	B1	Moden	10/30/2001	

<b>EXAMINER</b> Nema Berezny	<b>DATE CONSIDERED</b> 1-7-05
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	10/175,736
				Confirmation Number	
				Filing Date	February 10, 2004
				First Named Inventor	Stephen Modham
				Group Art Unit	2813
Examiner Name	Berezny				
Sheet	4	of	5	Attorney Docket No.	108298633US2

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
NB		6,326,698	B1	Akram	12/04/2001	
		6,329,222	B1	Corisis et al.	12/11/2001	
		6,329,705	B1	Ahmad	12/11/2001	
		6,331,221	B1	Cobbley	12/18/2001	
		6,331,448	B1	Ahmad	12/18/2001	
		6,344,976	B1	Schoenfeld et al.	02/05/2002	
		6,391,681	B1	Corisis	05/21/2002	
		6,392,291	B1	Corisis	05/21/2002	
		6,410,990	B2	Taylor et al.	06/25/2002	
		6,429,528	B1	King et al.	08/06/2002	
		6,477,046	B1	Stearns et al.	11/05/2002	
		2002/0195345	A1	Bentsen et al.	12/26/2002	
		2002/0195614	A1	Tay et al.	12/26/2002	
NB		2003/0030965	A1	Chua et al.	02/13/2003	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
NB		EP	0 398 628	A2 A3	Kabushiki Kaisha Toshiba	11/22/1990		
NB		EP	0 413 451	A2 A3	Inmos Ltd.	02/20/1991		
NB		WO	92/17901	A1	Integrated System Assemblies Corporation	10/15/1992		
NB		DE	196 00 401	A1	Siemens AG	07/17/1997		
NB		DE	197 14 470	A1	Hewlett-Packard Co.	12/11/1997		

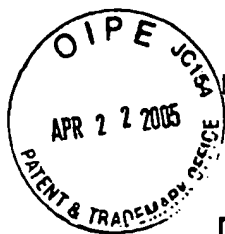
<b>EXAMINER</b> Nema Berezny	<b>DATE CONSIDERED</b> 1-7-05
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	10 775,736
				Confirmation Number	
				Filing Date	February 10, 2004
				First Named Inventor	Stephen Moxham
				Group Art Unit	2813
Examiner Name	Berezny				
Sheet	5	of	5	Attorney Docket No.	108298633US2

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
HD		EP	0 853 337	A1	Fujitsu Ltd.	07/15/1998		

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.		T
NB		VAN ZANT, Peter, "Microchip Fabrication: A Practical Guide to Semiconductor Processing," page 545, McGraw-Hill, New York, Third Edition, October 1996, ISBN: 0070672504.		
NB		HARPER, Charles A. and MILLER, Martin B., "Electronic Packaging, Microelectronics, and Interconnection Dictionary," page 211, McGraw-Hill, New York, February 1993, ISBN: 0070266883.		
NB		KOHL, James E. et al., "Low Cost Chip Scale Packaging and Interconnect Technology," 7 pages, Proceedings of the Surface Mount International Conference, San Jose, California, September 1997, <http://www.epic-tech.com/smtppr.pdf>.		
NB		KOHL, James E. et al., "EPIC CSP™ Assembly and Reliability Methods," 5 pages, Proceedings of CSI98, Santa Clara, California, May 1998, <http://www.epic-tech.com/cspi982.pdf>.		
NB		SINGER, Adam T. et al., "Cost Considerations for CSP Variations," 9 pages, presented at Chip Scale International, San Jose, California, May 1998, <http://www.epic-tech.com/ibis_papr.pdf>.		
NB		TESSIER, Theodore G. et al., "Technologies and Trends in Wafer Level Packaging," 15 pages, Future Fab International, Volume 11, June 29, 2001, <http://www.future-fab.com/documents.asp?d_ID=660>.		
NB		LAU, John H., "Ball Grid Array Technology," McGraw-Hill, Inc., Chapter 8, "Reliability of Ceramic Ball Grid Array Assembly," 1995, pp. 224-265.		

EXAMINER Nema Berezny Heather O'Leary 7/26/05	DATE CONSIDERED 1-7-05
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).	



Express Mail No. EV622661695US

Attorney Docket No. 108298633US2  
Disclosure No. 01-0389.02/US

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete If Known</b>	
				Application Number	10/775,736-Conf. #1541
				Filing Date	February 10, 2004
				First Named Inventor	Stephen Moxham
				Art Unit	2813
				Examiner Name	<del>N.O. Berozay</del> H.A. Doty
Sheet	1	of	1	Attorney Docket Number	108298633US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
HD		US-2002/0139578-A1	10/2002	Alcoe et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>Hayden Doty</i>	Date Considered	7/27/05
-----------------------	--------------------	--------------------	---------